

## AMENDMENTS TO THE CLAIMS

**Claim 1 (Currently Amended)** A machine for grinding optical lenses, of the type comprising:

[[[-]]] a grindstone set (21) mounted rotatably about a first axis (A-A');  
[[[-]]] a lens support (15) furnished with means (37) for rotating the lens (35) about a second axis (B-B') which, at least during grinding, is substantially parallel to said first axis (A-A');  
[[[-]]] means (13, 39) for relative axial and radial positioning of the lens support (15) relative to the grindstone set (21); and  
[[[-]]] a tool-carrier assembly (17) comprising at least one tool (81; 83; 85) mounted integral with a tool-carrier shaft (75) rotatable about a third axis (C-C'), means (79) for actuating the tool-carrier shaft (75) suitable for moving the tool (81; 83; 85) between a retracted position and an active position in the vicinity of said second axis (B-B'), the third axis (C-C') having an inclination that can be varied relative to the second axis (B-B'),

the tool-carrier assembly (17) also comprising means (79) for controlling, on a value dependent on the value of the curvature of the lens, the angle of inclination ( $\alpha$ ) of the third axis (C-C') relative to the second axis (B-B') when the tool (81; 83; 85) is distant from the lens (35),

characterized in that the control means (79) are suitable for retracting the tool-carrier shaft (75) via the control of said angle of inclination ( $\alpha$ ).

**Claim 2 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that it comprises further comprising means (13, 39) for relative movement of the tool-carrier shaft (75) relative to the lens support (15) in translation along the third axis (C-C') when the tool (81; 83; 85) is in the active position.

**Claim 3 (Currently Amended)** The grinding machine as claimed in claim 2, characterized in that wherein said means (13, 39) for relative movement comprise means (13) for relative translation of the tool-carrier shaft (75) relative to the second axis (B-B') in a first direction, particularly in a direction parallel to the second axis (B-B'), means (53) for relative pseudo-translation of the tool-carrier shaft (75) relative to the second axis (B-B') in a second direction distinct from the first direction, particularly a direction perpendicular to the second axis (B-B'), and means (19) for synchronizing said translation and pseudo-translation means (39).

**Claim 4 (Currently Amended)** The grinding machine as claimed in claim 2, characterized in that wherein the grindstone set (21) comprises a grindstone support (22) furnished with means (27, 29) for axial translation, and in that the tool-carrier assembly (17) is connected in translation to said grindstone support (22).

**Claim 5 (Currently Amended)** The grinding machine as claimed in claim 2, characterized in that wherein the lens support (15) is furnished with radial pseudo-translation means (39).

**Claim 6 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that wherein the tool-carrier assembly (17) is mounted rotatably on the grindstone support (22) about an axis (D-D') perpendicular to said first axis (A-A').

**Claim 7 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that wherein said control means (79) control the angle ( $\alpha$ ) of inclination of the third axis (C-C') relative to the second axis (B-B') between 0 and 30° in the active position of said shaft (75).

**Claim 8 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that wherein said control means (79) are suitable for retracting said shaft (75) under the grindstone set (21) by moving it in front of the latter.

**Claim 9 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that wherein the at least one tool is an additional includes a back-beveling grindstone (81).

**Claim 10 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that wherein the at least one tool is includes a grooving grindstone (83).

**Claim 11 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that wherein the at least one tool is includes a drilling tool (85).

**Claim 12 (Currently Amended)** The grinding machine as claimed in claim 1, characterized in that it comprises further comprising means (13, 39) for relative movement of the tool-carrier shaft (75) relative to the lens support (15) in translation along the third axis (C-C') when the tool (81; 83; 85) is in the active position, and in that said relative movement means (13, 39) comprise means (13) for relative translation of the tool-carrier shaft (75) relative to the second axis (B-B') in a first direction, parallel to the second axis (B-B'), means for pseudo-translation of the lens support (15) relative to the second axis (B-B') in a second direction perpendicular to the second axis (B-B'), and means (19) for synchronizing said means of translation (13) and pseudo-translation (39).

**Claim 13 (Currently Amended)** The grinding machine as claimed in claim 3, characterized in that wherein the grindstone set (21) comprises a grindstone support (22) furnished with means (27, 29) for axial translation, and in that the tool-carrier assembly (17) is connected in translation to said grindstone support (22).

**Claim 14 (Currently Amended)** The grinding machine as claimed in claim 3, characterized in that wherein the lens support (15) is furnished with radial pseudo-translation means (39).

**Claim 15 (Currently Amended)** The grinding machine as claimed in claim 4, characterized in that wherein the lens support (15) is furnished with radial pseudo-translation means (39).

**Claim 16 (Currently Amended)** The grinding machine as claimed in claim 13, characterized in that wherein the lens support (15) is furnished with radial pseudo-translation means (39).

**Claim 17 (Currently Amended)** The grinding machine as claimed in claim 2, characterized in that wherein the tool-carrier assembly (17) is mounted rotatably on the grindstone support (22) about an axis (D-D') perpendicular to said first axis (A-A').

**Claim 18 (Currently Amended)** The grinding machine as claimed in claim 3, characterized in that wherein the tool-carrier assembly (17) is mounted rotatably on the grindstone support (22) about an axis (D-D') perpendicular to said first axis (A-A').

**Claim 19 (Currently Amended)** The grinding machine as claimed in claim 4, ~~characterized~~ in that wherein the tool-carrier assembly (17) is mounted rotatably on the grindstone support (22) about an axis (D-D') perpendicular to said first axis (A-A').

**Claim 20 (Currently Amended)** The grinding machine as claimed in claim 13, ~~characterized~~ in that wherein the tool-carrier assembly (17) is mounted rotatably on the grindstone support (22) about an axis (D-D') perpendicular to said first axis (A-A').